

Appl. No. 09/840,210
Amendment and/or Response
Reply to Office action of October 15, 2003

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121.

Listing of Claims:

This listing of claims will replace all prior version, and listing, of claims in the application:

1. (Currently amended) A method of manufacturing a display tube comprising-press-forming a glass panel to form inner corners and then cooling the formed glass panel such that surface temperatures of the inner corners remain below a strain point temperature of the glass after pressing.
2. (Currently amended) A method as claimed in claim 1, wherein a maximum difference in surface temperatures between the inner corners and a centre of the glass during press-forming is less than 150°C.
3. (Previously presented) A method as claimed in claim 1, wherein during at least a part of the step of press-forming the glass panel, a surface temperature at an inner corner is kept below a surface temperature at the centre of the glass panel.
4. (Currently amended) A method as claimed in claim 3 wherein after press-forming the inner corners are cooled more than the centre.
5. (Previously presented) A method as claimed in claim 1 wherein the surface temperatures of the inner corners remain below the strain point of the glass during and after press-forming.
6. (Previously presented) A method as claimed in claim 5 wherein the surface temperatures of the inner corners remain at least 30°C below the strain point of the

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glass during and after press-forming.

7. (Previously presented) A method as claimed in claim 1 wherein heat transfer elements improve heat transfer from the glass panel.

8. (Previously presented) A method as claimed in claim 7 wherein stainless steel tissue forms a heat transfer element.

9. (Withdrawn) A method of manufacturing a display tube comprising:

locating a volume of hot glass in a die;

pressing the hot glass against the die with a plunger to form a glass structure having a front plate with a center, side peripheral portions, and corners that connect the side peripheral portions to the front plate, wherein the glass structure is thicker at the corners than at the center, and wherein the plunger cools an inner surface of the glass structure; and

cooling the plunger to remove heat from the corners such that surface temperatures at the inner surfaces of the corners remain below a glass strain point after pressing.

10. (Withdrawn) A method as claimed in claim 9 wherein cooling is provided by gas flow.

11. (Withdrawn) A method as claimed in claim 9 wherein cooling is provided by liquid flow.

12. (Withdrawn) A method as claimed in claim 9 wherein cooling is provided by a stainless steel tissue.

13. (Withdrawn) A method as claimed in claim 9 wherein the surface temperatures at the corners remain below the glass strain point after re-heating by the hot glass.

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14. (Withdrawn) A method as claimed in claim 13 wherein the surface temperatures at the corners remain more than 30 degrees below the strain point after re-heating by the hot glass.

15. (Withdrawn) A method as claimed in claim 9 wherein the surface temperatures at the corners and a surface temperature at the center remain below the strain point after re-heating by the hot glass.

16. (Withdrawn) A method as claimed in claim 15 wherein the surface temperatures at the corners and at the center remain at least 30 degrees below the strain point after re-heating.

17. (Withdrawn) A method as claimed in claim 15 wherein the maximum surface temperature difference between the corners and the center is less than 25 degrees after re-heating has caused the surface temperatures at the corners to assume their maximum temperature.

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